CHALYY, D.Z.

Construction of electric interlocking systems by railroad workers. Avtom., telem. i sviaz'. 4 no.5:28-29 My '60. (MIRA 13:8)

1. Nachal'nik Makhachkalinskoy distantsii signalizatsii i svyazi Severo-Kavkazskoy dorogi.
(Railroads—Signaling—Interlocking systems)

CHALYY, G., kand.tekhn.nauk (Kishinev)

I prefer the "Liubitel'" camera. Sov. foto 20 no. 12:27-28 D '60. (MIRA 14:1)

(Cameras)

VOZNYUK, G.S., inzh.; CHALYY, G.T., tekhnik

Automatic dynamic penetrating equipment. Transp. stroi. 15 no.1:54 Ja '65. (MIRA 18:3)

CHALYY, G.V.

GIRSHBERG, V.V., inzhener; ARSON, G.S., inzhener; CHALYY, G.V., inzhener.

Modern systems of automatic control of large hydroelectric units. Vest.elektroprom. 18 no.5:13-18 '47. (MLRA 6:12)

1. Proyektno-vosstanovitel'nyy trest Ministerstva elektropromyshlennosti. (Automatic control) (Hydroelectric power stations)

CHALYY, G.V.

AID P - 2000

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 4/31

Authors : Ettinger, Ye. L., Kand. of Tech. Sci., Chalyy, G. V., Eng., and Glukh, Ye. M., Eng.

Title : Experimental installation of an electronic excitation system at a high capacity hydroelectric power station

Periodical : Elektrichestro, 4, 16-23, Ap 1955

Abstract : The authors describe a system with mercury rectifiers used for the excitation of a 55,000-kw water-wheel generator at one of the Mosenergo hydroelectric power stations. Similar installations were tested for a 3,000-kw turbogenerator at a Mosenergo steam electric power station, and for a 30,000-kva synchronous condenser. The tests confirmed the high qualities of field control with metal tank mercury arc rectifiers, namely: a) the high rate of a-c voltage response; b) the rapid exciter field extinction (in less than 1 sec) without breaking the winding circuit;

Elektrichestro, 4, 16-23, Ap 1955 AID P - 2000

Card 2/2 Pub. 27 - 4/31

c) an increase of the "rigidity" (continuity of response) of the regulation system, and d) the high dependability, simplicity and ease of operation of the system. Fifteen photographs and diagrams.

Institution: Trust "ELEKTROPRIVOD" and plant "URALELEKTROAPPARAT".

Submitted : N 26, 1954

GLUKH, Ye.M.; CHALYY, G.V.; ETTINGER, Ye.L.

Ionic system for the excitation of hydrogenerators. Elektrosila no.14:35-40 '56. (MIRA 12:12)
(Electric generators)

CHALYY, G.V., inzhener; ETTINGER, Ye.L., kandidat tekhnicheskikh nauk; GLUKH, Ye.M., inzhener.

Electronic exciter for generators at the Kuybyshev Hydroelectric Power Station. Vest. elektroprom.27 no.2:40-50 F '56. (MLRA 9:7)

1.TSentral'noye konstruktorskoye byuro "Elektroprivod" Ministerstva elektropromyshlennosti.
(Electric generators)

CHALYY, G.V.

Name: CHALYY, G. V.

Dissertation: Ionic excitation of powerful generators operating over long transmission lines

Degree: Cand Tech Sci

Defended at:
~~Affiliation~~: Min Higher Education USSR, Moscow Order of Lenin Power Engineering Institute imeni V. M. Molotov

Publication
~~Defense~~ Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 2, 1957

CHALYY, G.V.

PAUTIN, N.V., inzhener; CHALYY, G.V., inzhener.

The KPCh-1 automatic tuning-fork frequency regulator.
Vest.elektroprom. 27 no.3:13-26 Mr '56. (MLRA 9:12)

1. Energeticheskiy institut Akademii nauk SSSR (for Pautin)
2. TSentral'noye konstruktorskoye byuro "Elektroprivod" (for Chalyy).

(Electric controllers)

SOV/110-58-11-27/28

AUTHOR: Chalyy, G.V. (Cand.Tech.Sci.)

TITLE: Review of the Book "Ural Electrical Engineering Works" (Retsenziya na knigu "Ural'skiy zavod elektromashinostroyeniya".

PERIODICAL: Vestnik Elektropromyshlennosti, Nr.11, 1958, p.78, (USSR)

ABSTRACT: This book is one of a series on the history of engineering in the Urals and is written by a group of authors working at the factory. The review is generally favourable but the style and presentation are criticised.

1. Electrical engineering 2. Literature

Card 1/1

CHALYY, G.V., kand.tekhn.nauk

Concerning the power characteristics of an ionic excitation system of a large hydrogenerator. Vest. elektroprom. 32 no.4: 72-73 Ap '61. (MIRA 15:5)

(Turbogenerators)

GLUKH, Ye.M., kand.tekhn.nauk; ETTINGER, Ye.L., kand.tekhn.nauk;
CHALYY, G.V., kand.tekhn.nauk; SHMAYN, Yu.A., inzh.

Testing of the ionic self-excitation system of a large hydrogenerator. Vest. elektroprom. 32 no.11:4-9 N '61. (MIRA 14:11)
(Turbogenerators)

CHALYY, G.V.

Trends in the development of the excitation systems of large synchronous generators and compensators. Izv. AN Mold. SSR. no.3:26-41 '63.

Quenching of a magnetic field in generators with electronic excitation. Ibid.:42-63 (MIRA 17:12)

CHALYY, G.V.; SYROMYATNIKOV, I.A., doktor tekhn. nauk, prof.

Increase of the frequency of alternating current and determination of its optimal value in long-term electrification of the U.S.S.R. Elektrichestvo no.12:80-82 D '64. (MIRA 18:12)

1. Chlen-korrespondent AN Moldavskoy SSR (for Chalyy).

CHALYY, G. V.; BUTENKO, B. M.

Automation of tomato processing lines. Izv. AN Mold. SSR no.9: 45-67 '62. (MIRA 16:1)

(Tomato products)
(Canning and preserving--Equipment and supplies)
(Automation)

Chalyy, G. Ya.

AUTHOR: Chalyy, G. Ya. 68-8-4/23

TITLE: An Installation for the Remote Control of the Level of Materials in Bunkers. (Ustroystvo dlya distantsionnogo opredeleniya urovnya shikhty v Khranilischchakh).

PERIODICAL: Koks i Khimiya, 1957, No.8, pp.12-14 (USSR)

ABSTRACT: An installation based on changes in electrical capacity with changes in the level of material in a bunker is described. The electrical circuit is shown in figure 1, a specially designed pick-up in figure 2. There are 2 figures.

ASSOCIATION: Giprokoks.

AVAILABLE: Library of Congress

Card 1/1

SOV/68-59-4-2/23

AUTHOR: Chalyy, G.Ya.

TITLE: Automatic Blending of Coals (Avtomaticheskoye dozirovaniye shikhty)

PERIODICAL: Koks i Khimiya, 1959, Nr 4, pp 7-8 (USSR)

ABSTRACT: Kinematic and electrical schemes of a feeding system which automatically maintains a given rate of feeding coal are described (see Fig). The weight of coal supplied by an electro-vibrating feeder on to a conveyor belt is transmitted by a fulcrum arrangement to a spring. Any unbalancing of the spring caused by a too low or too high weight of the coal causes movement of the plunger of an electromagnetic transmitter thus unbalancing the induction bridge of the apparatus EPID-05-10. The signal controls the amplitude of vibration of the feeder. The equipment was tested and the results obtained indicated that the variation in the rate of

Card 1/2

Automatic Blending of Coals

feeding did not exceed 2%. There is one figure.

ASSOCIATION: Giprokoks

Card 2/2

CHALYY, G.Ya.

New transducers in coal preparation shops. Koks i khim. no.16:18-22 '61. (MIRA 15:2)

1. Gosudarstvennyy vsesoyuznyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti.
(Coal preparation plants—Equipment and supplies)

SICHENKO, V.K.; IVANOV, B.V.; POLYAKOV, I.I.; REZNIKOV, A.A.; DORFMAN, G.A.; IZRAELIT, E.M.; NOTYCH, A.G.; TOPYGIN, L.A.; CHALYY, G.Ya.; STETSENKO, Ye.Ya.; UDOVICHENKO, L.V.; FILIPPOV, B.S., nauchn. red.; LERNER, R.Z., nauchn. red.; GOL'DIN, Ya.A., glav. red.; KULESHOV, M.M., red.; POLOTSK, S.M., red.

[By-product coke industry] Koksokhimicheskoe proizvodstvo. Moskva, Metallurgiia, 1965. 167 p. (MIRA 18:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy chernoy metallurgii. 2. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta informatsii i tekhniko-ekonomicheskikh issledovaniy chernoy metallurgii (for Kuleshov).

SHCHERBAKOV, V.P. (Omsk); CHALYY, I.I., mekhanik (Omsk)

Truck-hoister for introducing gunite work inside reinforced concrete tanks. Stroi. truboprov. 9 no.10:27 O '64. (MIRA 18:7)

1. Glavnyy mekhanik SU-2 tresta Omsknefteprovodstroy (for Shcherbakov).
2. Otdel glavnogo mekhanika tresta Omsknefteprovodstroy (for Chalyy).

UMEN, D.P., kand. sel'skokhoz. nauk; CHALYY, I.I., kand. sel'skokhoz. nauk; SHCHERBAKOVA, L.M.

Effect of the ripeness of seed on the yield of individual oilseed and aromatic crops. Agrobiologiia no.5:664-670 S-O '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i efiromaslichnykh kul'tur, Krasnodar.

CHALLY, K.

USSR/Miscellaneous - Radio communications

Card 1/1 : Pub. 89 - 4/29

Authors : Chally, K., and Tsoy, V.

Title : Radio communications in the service of mechanization specialists

Periodical : Radio 7, page 7, July 1954

Abstract : The article deals with the system of radio communications between the various Kolkhozes and the newly organized MTS (Machine-Tractor Stations) in Kazakhstan. General information about the type of radio-installations and the range of operation, in the newly opened areas, is given, together with the number of new Kolkozes, MTS, tractors and mechanized plows. Illustration.

Institution : ...

Submitted : ...

CHALYY, M.I.; KOVESHNIKOV, A.S.; VLASOVA, V.P.; POSYSAYEVA, A.I.

Modernized NM pump-mixer. Suggested by M.I.Chalyi, A.S. Koveshnikov, V.P.Vlasov, A.I.Posysaev. Rats.i izobr.predl.v stroi. no.12:58-59 '59. (MIRA 13:5)

1. Sotrudniki TSentral'noy nauchno-issledovatel'skoy laboratorii No.3 Glavstroya, stantsiya Lyublino, Moskovskoy oblasti, Shkol'nyy per., d.3.
(Mixing machinery)

CHALYY, N. D.: Eng.

Transportir ovaniye Shtukaturnogo Rastvora S Ispol 'zovaniyem Machtovogo Pod"yemnika T-37 Stroi. Prom. 30 No. 5, 1952

Monthly List of Russian Accessions, Library of Congress, September, 1952. UNCLASSIFIED.

CHALYY, N.D., inzhener.

Apparatus for slaking lime without waste. Mekh.stroi. 10 no.10:31-32 O '53.
(MLRA 6:9)
(Lime)

CHALYY, N.D., inzhener.

Mechanized removal of lime paste from slaking pits. Mekh.stroi. 12 no.10:26 O '55. (MLRA 9:1)
(Lime) (Cranes, derricks, etc.)

MOLCHANOV, N.V., inzh.; CHALYY, N.D., inzh.

Standardize hydraulic structural elements for the construction of ports. Trans. stroi. 13 no.8:35-36 Ag '63.
(MIRA 17:2)

MOLCHANOV, N.V., inzh.; CHALYY, N.D., inzh.

Improve the quality of the surveying in harbor hyd-aulic engineering construction. Transp. stroi. 14 no.5:24-25 My '64. (MIRA 18:11)

CHALYY, V.I., gornyy inzhener

One hundred and fifty meters crosscut per month. Ugol' Ukr. 3 no.6:26-28 Je '59. (MIRA 12:11)
(Lugansk Province--Coal mines and mining--Labor productivity)

PRIDOROGIN, V.D., inzh.; CHALYY, V.I., inzh.

Organization of rapid crosscutting in mines of the Lugansk Combine. Shakht. stroi. 7 no.6:1-6 Je '63. (MIRA 16:7)

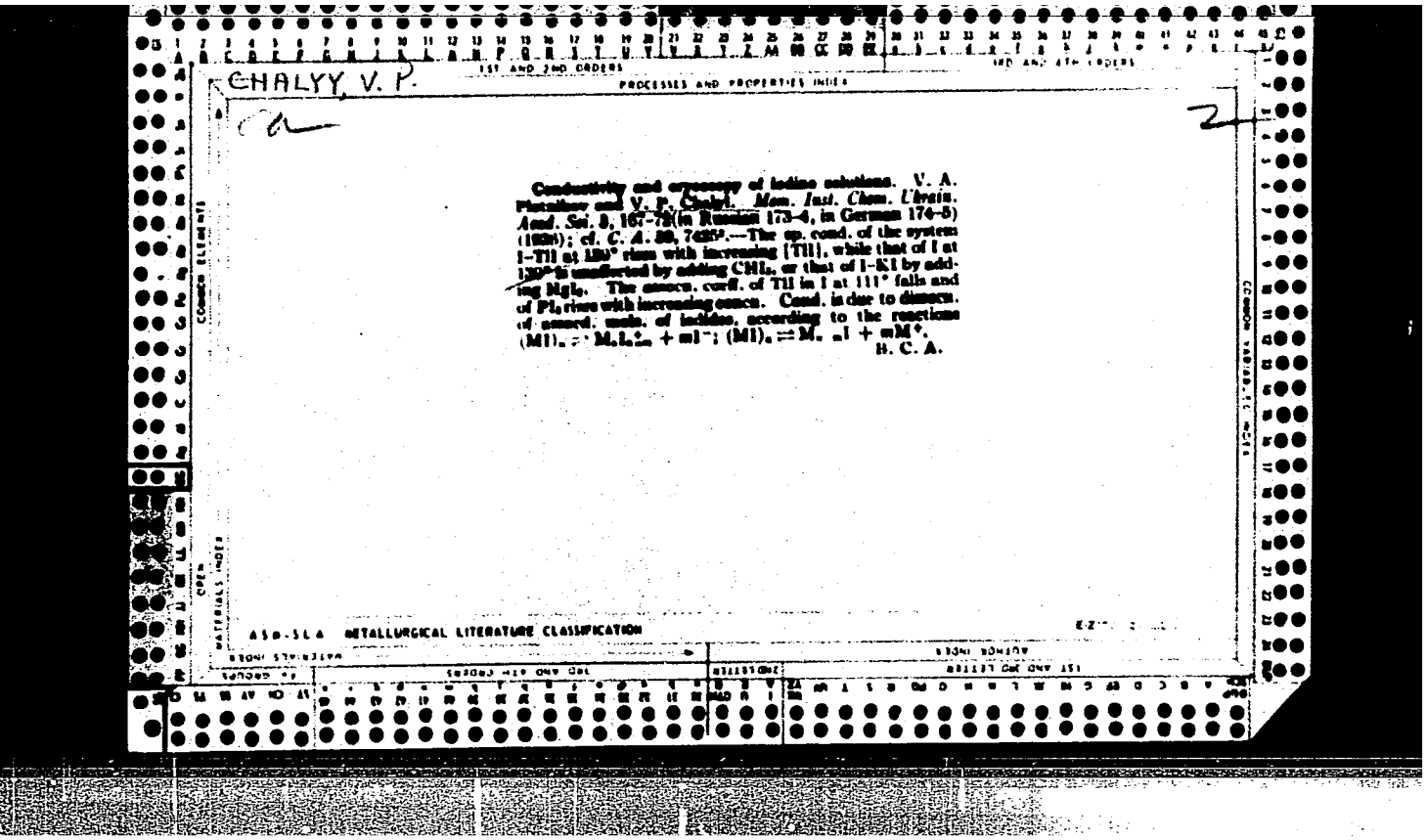
1. Luganskugol'.
(Lugansk region—Mining engineering)

PISKOZUB, Z.I.; CHALYY, V.P.

GAN-8 "Urozhai", a universal machine. Zashch. rast. ot vred. i bol. 7 no.2:15-16 F '62. (MIRA 15:12)
(Agricultural machinery)

CHALYY, V.P.

Mechanism of mounting tanks on various tractors. Trakt. i sel'khozmash. no.11:39-40 N '65. (MIRA 18:12)

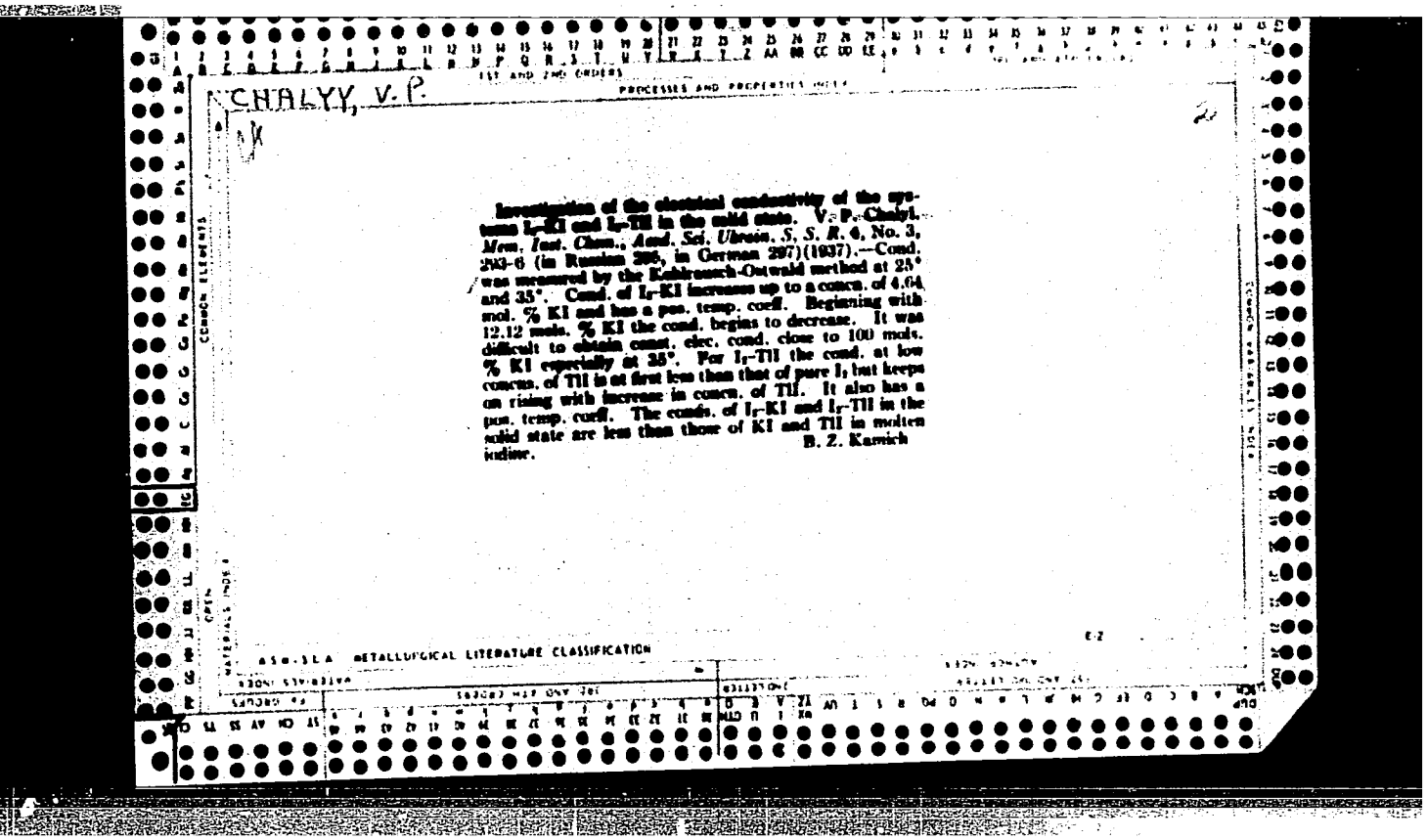


CHALYY, V. P.

PROCESSES AND PROPERTIES INDEX

Conductivity and appearance of iodine solutions. V. A. Plotnikov and V. P. Chalyi. *Mem. Inst. Chem. Ukrain. Acad. Sci.* 8, 167–78(in Russian 173–4, in German 174–5) (1938); *cf. C. A.* 30, 7425⁹.—The sp. cond. of the system I–TlI at 135° rises with increasing [TlI], while that of I at 130° is unaffected by adding CHI₃, as that of I–KI by adding MgI₂. The assocn. coeff. of TlI in I at 111° falls and of PI₃ rises with increasing concn. Cond. is due to dissocn. of assocd. mols. of iodides, according to the reactions $(MI)_n \rightleftharpoons M_{n-1}I_{n-1}^{+} + mI^{-}$; $(MI)_n \rightleftharpoons M_n I_{n-1} + mM^{+}$.
H. C. A.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION



CHALYY, V. P.

Investigation of the electrical conductivity of the systems I_2-KI and I_2-TlI in the solid state. V. P. Chalyi. *Mem. Inst. Chem., Acad. Sci. Ukrain. S. S. R.* 4, No. 3, 293-6 (in Russian 305, in German 297)(1937).—Cond. was measured by the Kohlrausch-Ostwald method at 25° and 35°. Cond. of I_2-KI increases up to a concn. of 4.64 mol. % KI and has a pos. temp. coeff. Beginning with 12.12 mols. % KI the cond. begins to decrease. It was difficult to obtain const. elec. cond. close to 100 mols. % KI especially at 35°. For I_2-TlI the cond. at low concns. of TlI is at first less than that of pure I_2 but keeps on rising with increase in concn. of TlI. It also has a pos. temp. coeff. The conds. of I_2-KI and I_2-TlI in the solid state are less than those of KI and TlI in molten iodine.

B. Z. Kamich

1ST AND 2ND ORDERS — PROCESSES AND PROPERTIES INDEX — 3RD AND 4TH ORDERS

CHALYY, V.P.

CA

Electric conductivity of the systems β-Ag₂S–S and
β-AgI–TlI at 25° and 35°. V. P. Chalyi. Mem. Inst.
Chem., Acad. Sci. Ukrain. S. S. R. 3, No. 3, 231–5
(in Russian, 235–6, in English, 236–7)(1936).—β-Ag₂S–S
and β-AgI–TlI tablets 11 mm. in diam. and 2–3 mm.
thick were prepd. by compressing β-Ag₂S and β-AgI with
various amts. of S and TlI under a pressure of 120 kg./sq.
cm. Cond. of the tablets was measured by the Kohl-
rausch-Ostwald method. The cond. increases with a rise
in temp. but it decreases with the simultaneous addn. of
S and TlI. Cond. of β-Ag₂S–S drops from 1.02 × 10^{-4}
at 0 mol. % S to 0.13 × 10^{-4} at 76.[illegible] mol. % S at 25° and
from 2.90 × 10^{-4} to 0.14 × 10^{-4} at 35°. For β-AgI–TlI
the cond. dropped from 1[illegible] × 10^{-6} at 0 mol. % TlI to
0.10 × 10^{-6} at 64.[illegible] mol. % TlI and from 180 × 10^{-6} to
0.17 × 10^{-6} at 25° and 35°, resp. Both systems were non-
conducting at about [illegible]% S and TlI. By increasing the
amt. of such nonconducting constituents such as S and
TlI the quantity and mobility of the Ag ions in the solid
conductors are decreased, and as a result, the cond. of the
system also decreases. B. Z. Kamich

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

CHALYY, V. P.

137-58-5-8792

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 9 (USSR)

AUTHOR: Chalyy, V. P.

TITLE: A Study of the Products Resulting From Interaction Between Components of Zinc Concentrate Undergoing Roasting (Issledovaniye produktov vzaimodeystviya mezhdu sostavnymi chastyami tsinkovogo kontsentrata pri yego obzhige)

PERIODICAL: Tr. soveshchaniya po metallurgii tsinka, 1954, Moscow, Metallurgizdat, 1956, pp 66-69

ABSTRACT: It has been experimentally established that a number of metals are concentrated in the magnetic fraction of a roasted concentrate; this is explained by the formation of solid solutions of the ferrites. Hence the conclusion that a process of magnetic separation of the roasted concentrate should be introduced into the existing system of Zn production. The formation of ferrites is intensified with increasing roasting temperatures. The solubility of the various ferrites decreases with increasing temperatures. The ferrites studied may be arranged according to their decreasing solubilities in a 2 N solution of H_2SO_4 (at 60°) as follows: $CdFe_2O_4 \rightarrow ZnFe_2O_4 \rightarrow CoFe_2O_4$. Thus, after leaching a sinter cake contains more Co than Zn and more Zn than Cd. A. Sh.

Card 1/1

1. Zinc ores--Processing 2. Ferrites--Solubility

AUTHORS: Chalyy, V.P., and Rozhenko, S.P. 585

TITLE: Coprecipitation of Nickel with Aluminium Hydroxide in Cadmium-Sulphate Solutions. II. X-Ray Investigation of the Precipitation Products. (Soosazhdenie Nikelya s Gidrookis'yu Alyuminiya v Rastvorakh Sernokislovo Kadmiya. II. Rentgenograficheskoe Issledovanie Produktov Soosazhdeniya).

PERIODICAL: "Zhurnal Neorganicheskoy Khimii" (Journal of Inorganic Chemistry Vol.II, No.2, pp.456-459 (U.S.S.R.). 1957

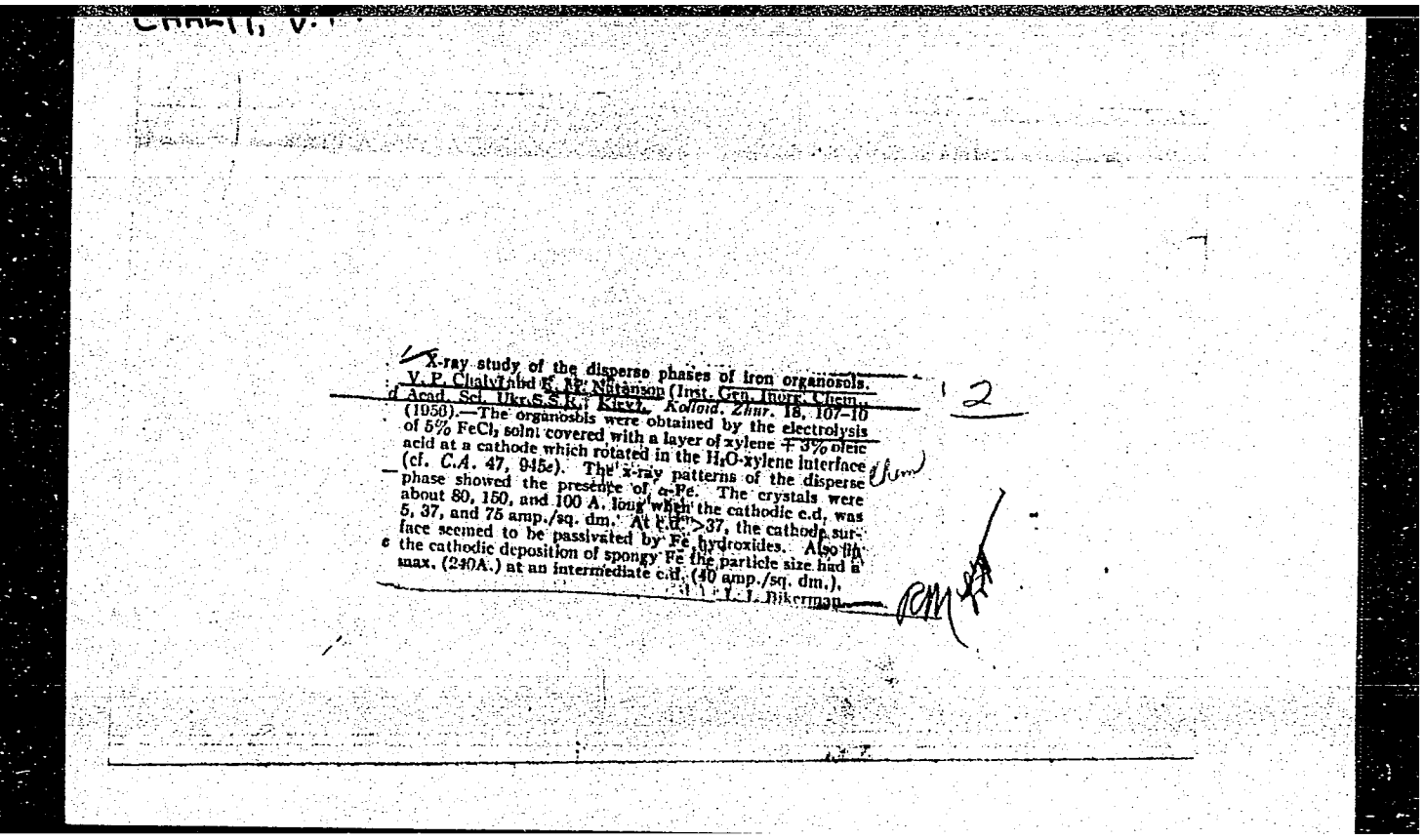
ABSTRACT: X-Ray investigations have shown that the coprecipitation of nickel with aluminium hydroxide from cadmium-sulphate solutions occurs on account of the formation of a solid solution of nickel hydroxide $Ni(OH)_2$ in γ-$Al(OH)_3$. The coprecipitated product is white with a bluish-green tinge. Values obtained for interplanar distances for the coprecipitated product from cadmium sulphate solution and for $Ni(OH)_2$ and $Al(OH)_3$ precipitated together are tabulated together with values in the literature for artificial γ-$Al(OH)_3$.

There are twenty-five references, four of them Russian.

One Table.

The work was carried out at the Institute of General and Inorganic Chemistry of the Academy of Sciences of the Ukrainian SSR.

Received 23 July, 1956.



X-ray study of the disperse phases of iron organosols. V. P. Chalyĭ and E. M. Nataĭson (Inst. Gen. Inorg. Chem., Acad. Sci. Ukr.S.S.R., Kiev). *Kolloid. Zhur.* 18, 107–10 (1956).—The organosols were obtained by the electrolysis of 5% $FeCl_3$ soln. covered with a layer of xylene + 3% oleic acid at a cathode which rotated in the H_2O-xylene interface (cf. *C.A.* 47, 945e). The x-ray patterns of the disperse phase showed the presence of α-Fe. The crystals were about 80, 150, and 100 A. long when the cathodic c.d. was 5, 37, and 75 amp./sq. dm. At c.d. >37, the cathode surface seemed to be passivated by Fe hydroxides. Also in the cathodic deposition of spongy Fe the particle size had a max. (240A.) at an intermediate c.d. (40 amp./sq. dm.).
T. J. Dikerman

Chalyy, V.P

Category : USSR/Solid State Physics - Structural Crystallography E-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3706

Author : Chalyy, V.P.
Title : Procedure for Producing Blackening Marks in X-Ray Diffraction Investigations

Orig Pub : Zavod. laboratoriya, 1956, 22, No 7, 874-875

Abstract : No abstract

Card : 1/1

CHALYY, V.P.

Preparing cylindrical samples for roentgenography. Zav. lab 22 no.9:1120 '56. (MLRA 9:12)

1. Institut obshchey i neorganicheskoy khimii Akademii nauk USSR.
(X rays--Industrial applications)

CHALYY, V.P.; ROSHCHENKO, S.P.

X-ray study of the system: $ZnFe_2O_4$-$CoFe_2O_4$ and $ZnFe_2O_4$-$CdFe_2O_4$.
Dokl.AN SSSR 108 no.5:875-877 Je '56. (MLRA 9:10)

1. Institut obshchey i neorganicheskoy khimii Akademii nauk USSR.
Predstavleno akademikom A.N. Frumkinym.
(Ferrates(III))

CHALYY, V. P.

Category: USSR / Physical Chemistry.
Thermodynamics. Thermochemistry. Equilibrium. Physico-chemical analysis. Phase transitions. B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29938

Author : Chalyy V. P., Rozhenko S. P.
Inst : Academy of Sciences USSR
Title : X-Ray Investigation of the System ZnO - In_2O_3.

Orig Pub: Dokl. AN SSSR, 1956, 108, No 6, 1106-1108.

Abstract: Roentgenographic investigation showed that $ZnIn_2O_4$ is not formed in the ZnO - In_2O_3 system. The region of solid solutions of ZnO in In_2O_3 is limited to an 8.90% by weight content of ZnO and is not altered by the method of preparation and temperature of calcining of the mixture of oxides. The previously reported data (Ensslin F., Valentiner S., Z. Naturforsch., 1947, 26, 5) concerning the boundary of the occurence of solid solutions, in the ZnO - In_2O_3 system, could not be confirmed.

Card : 1/1 -50-

CHALYY, V.P.; ROZHENKO, S.P.

Coprecipitation of nickel with aluminum hydroxide in cadmium sulfate solutions. Part 2. X-ray analysis of the coprecipitation products. Zhur.neorg.khim. 2 no.2:456-459 F '57. (MLRA 10:5)

1.Institut obshchey i neorganicheskoy khimii AN USSR.
(Nickel hydroxides) (Cadmium sulfate) (Precipitation)
(Aluminum hydroxide)

8

Electron-microscope and x-ray studies of the disperse phases of the organosols of lead-tin alloys. R. M. Natanson, V. P. Chu[illegible], N. [illegible] Kozachek, and A. P. Kat[illegible] (Inst. Gen. Inorg. Chem., Acad. Sci. Ukr. S.S.R. [illegible]). [illegible] 19 [illegible] [illegible] Sn [illegible] [illegible] with [illegible] [illegible] electrolyt[illegible] is deposited as dendritic crystals and [illegible] At a const. Pb Sn ratio in the [illegible] [illegible] consisted of crystals of 368 A with the lattice spacing of 4.958 A. [illegible]

Institute obshchey i neorganicheskoy Khimii Akademii nauk USSR

CHALYY, V.P.

CHALYY, V.P.; ROZHENKO, S.P.

Kinetics and aging mechanism of hydroxides of metals. Part 1: Radiographic investigation of indium hydroxide. Zhur.neorg.khim. 2 no.9:2007-2013 S '57. (MIRA 10:12)

1.Institut obshchey i neorganicheskoy khimii AN USSR.
(Indium hydroxides) (X-ray spectroscopy)

AUTHORS: Chalyy, V. P., Rozhenko, S. P. SOV/78-3-11-16/23

TITLE: II. Radiographic Investigation of Binary Metal Hydroxide Systems (II. Rentgenograficheskoye issledovaniye binarnykh sistem gidrookisey metallov)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 11, pp 2523 - 2531 (USSR)

ABSTRACT: The influence of the chemical properties of some metal hydroxides, their different stability to dehydration, the pH-value of the precipitation, and their structure were investigated. The following hydroxide systems were investigated: nickel hydroxide-iron hydroxide, copper hydroxide-iron hydroxide, and zinc hydroxide-iron hydroxide. In the precipitation of the hydroxides diluted solutions with the following ratio of the components were used: Ni:Fe, Cu:Fe, Zn:Fe = 1:2. 0,1 NaOH was used as precipitant, it was dropped in cold into the metal salt solutions. The experiments showed that in the case of an aging of the mixed hydroxides of Cu^{2+} + Fe^{3+} no copper ferrite is formed. In contrast to this zinc ferrite and nickel ferrite are produced easily. Fe^{3+} dehydrates

Card 1/3

slowly, in binary systems, however, quickly. In the case of an aging of the binary hydroxide systems the velocity of the ferrite formation depends on the following factors: 1) Chemical properties of the hydroxides, 2) Stability to dehydration of the hydroxides, 3) pH-value of the hydroxide precipitation, 4) Structure of the hydroxides. Zinc ferrite of the composition $ZnFe_2O_4$ is produced from the system of the hydroxides zinc-iron. The X-ray analysis confirms the existence of zinc ferrite. $NiFe_2O_4$ is formed in the system nickel hydroxide-iron hydroxide. The X-ray analysis confirms this formation. In the case of the precipitation of the hydroxides of $Cu^{2+} + Fe^{3+}$ $Cu(OH)_2$ exercises a protective effect in the dehydration of iron hydroxide. Thus, this system is stable to dehydration. In the system of the hydroxides $Cu^{2+} + Fe^{3+}$ no copper ferrite is formed, not even after 415 hours of aging under water at 20°C and after 10 hours heating at 90°C. The X-ray analyses showed that the hydroxides have amorphous structure. There are 2 figures, 2 tables,

II. Radiographic Investigation of Binary Metal Hydroxide Systems SOV/78-3-11-16/23

and 27 references, 22 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk USSR (Institute of General and Inorganic Chemistry, AS UkrSSR)

SUBMITTED: July 26, 1957

Card 3/3

CHALYY, V.P.

Regularities in the formation of powdered cathodic metal deposits. Ukr.khim.zhur. 24 no.5:563-569 '58. (MIRA 12:1)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
(Powder metallurgy) (Electroplating)

CHALYY, V. P.

PHASE I BOOK EXPLOITATION SOV/2216

5(4)

Soveshchaniye po elektrokhimii. 4th, Moscow, 1956.

Trudy...; [sbornik] (Transactions of the Fourth Conference on Electrochemistry; Collection of Articles) Moscow, Izd-vo AN SSSR, 1959. 868 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk.

Editorial Board: A.N. Frumkin (Resp. Ed.) Academician, O.A. Yesin, Professor, S.I. Zhdanov (Resp. Secretary), B.N. Kabanov, Professor, Professor, S.I. Zhdanov (Resp. Secretary), B.N. Kabanov, Professor; Professor, S.I. Zhdanov (Resp. Secretary); B.N. Kabanov, Professor; Ya. M. Kolotyrkin, Doctor of Chemical Sciences; V.V. Stender, Professor; Lakotsev, Professor; Z.A. Solov'yeva; V.V. Stender, Professor; and O.M. Florianovich; Ed. of Publishing House: N.G. Yegorov; Tech. Ed.: T.A. Prusakova.

PURPOSE: This book is intended for chemical and electrical engineers, physicists, metallurgists and researchers interested in various aspects of electrochemistry.

COVERAGE: The book contains 127 of the 138 reports presented at the Fourth Conference on Electrochemistry sponsored by the Department of Chemical Sciences and the Institute of Physical Chemistry, Academy of Sciences, USSR. The collection pertains to different branches of electrochemical kinetics, double layer theories and galvanic processes in metal electrodeposition and industrial electrolysis. Abridged discussions are given at the end of each division. The majority of reports not included here have been published in periodical literature. No personalities are mentioned. References are given at the end of most of the articles.

Chalyy, V.P. Characteristic Features of the Separation of Disperse Cathodic Deposits of Metals 517

Dresden, B.V. (Nauchno-issledovatel'skiy i proyektnyy institut "Gipronikel'", Technologicheskiy institut Leningrad- Scientific Research and Planning Institute "Gipronikel'"; Technological Institute, Leningrad). Cathodic Deposition of Metal in Disperse Form 520

Frantsevich-Zabludovskaya, T.V., and A.I. Zarata. Comparative Characteristics of Processes for Electrodepositing Molybdenum and Tungsten Alloys With Metals of the Iron Group 524

Ivanovskiy, A.I. (Institute of Physical Chemistry, Academy of Sciences, USSR) Some Problems of the Mechanism of the Electrodeposition of Nickel-Molybdenum Alloys 530

Tsvetanov, G.A., A.I. Chernilovskaya, and A.I. Levillevich (Institut khimii AN UzSSR-Institute of Chemistry, Academy

Card 21/34

CHALYY, V.P.; SHOR, O.I.; ROZHENKO, S.P.

Thermographic study of certain metal hydroxides. Part 1: Individual hydroxides. Ukr. khim. zhur. 27 no.1:3-6 '61. (MIRA 14:2)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
(Hydroxides)

CHALYY, V.A.; SHOR, O.I.

Thermographic study of certain metal hydroxides. Part 2: Binary hydroxide systems. Ukr. khim. zhur. 27 no. 1:7-11 '61. (MIRA 14:2)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
(Hydroxides)

CHALYY, V.P.; ROZHENKO, S.P.; MAKAROVA, Z.Ya.

Kinetics and mechanism of the aging of metallic hydroxides. Part 6: Determination of the water content of bivalent metal hydroxides. Ukr.khim.zhur. 28 no.8:915-920 '62. (MIRA 15:11)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.
(Metallic oxides)
(Water)

CHALYY, V.P.; ROZHENKO, S.P.; MAKAROVA, Z.Ya.

Kinetics and mechanism of the aging of metallic hydroxides. Part 7: Determination of the water content of trivalent metal hydroxides. Ukr.khim.zhur. 28 no.8:921-923 '62. (MIRA 15:11)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.
(Metallic oxides)
(Water)

CHALYY, V.P.

Kinetics and mechanism of the aging of metal hydroxides. Part 8: Rate of solution of hydroxides. Ukr.khim.zhur. 28 no.9:1005-1008 '62. (MIRA 15:12)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.
(Metallic oxides)
(Solubility)

CHALYY, V.P.

Mechanism of aging of individual metal hydroxides and their systems. Zhur.neorg.khim. 8 no.2:269-273 F '63. (MIRA 16:5)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.
(Metallic oxides) (Hydroxides)

CHALYY, V.P.; ZORYA, V.T.

Effect of the precipitation conditions on the dispersity of metal hydroxide precipitates. Zhur. neorg. khim. 9 no.11: 2536-2539 N '64 (MIRA 18:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

CHALYY, V.P.; MAKAROVA, Z.Ya.; ZORYA, V.T.

Determination of the heat of wetting of metal hydroxides by water. Koll.zhur. 26 no.2:263-266 Mr-Ap '64. (MIRA 17:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Kiyev.

ROZHENKO, S.P.; CHALYY, V.P.

Water content and apparent volume of precipitates in the binary systems of hydroxides of Mn - In, Zn - In, and Cd - In. Ukr. khim. zhur. 30 no.9:900-905 '64.
(MIRA 17:10)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

CHALYY, V.P.; ROZHENKO, S.P.

Infrared absorption spectra of binary systems of hydroxides Mg - In, Zn - In, Cd - Ir and of their dehydration products. Ukr. khim. zhur. 30 no.10:1027-1032 '64.

X-ray diffraction and thermographic study of the binary systems of hydroxides Mg - In, Zn - In, and Cd - In. Ibid.:1032-1036

(MIRA 17:11)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

L 31197-65 EWG(j)/EWT(m)/EPF(c)/EPR/T/EWP(t)/EWP(b) [illegible] EWP(c) JD

ACCESSION NR: AP5007619 S/0363/65/001/001/0131/0135

AUTHOR: Chalyy, V. P.; Lukachina, Ye. N.

TITLE: The kinetics and mechanism of ferrite formation in aging metal hydroxide systems

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 1, 1965, 131-135

TOPIC TAGS: metal hydroxide, hydroxide aging, ferrite formation, zinc ferrite, zinc hydroxide, complexometric titration

ABSTRACT: The formation of zinc ferrite in aging mixtures of $Zn(OH)_2$ and FeOOH was studied experimentally in order to determine optimal conditions for preparing the compound, $ZnFe_2O_4$, which is used in electronic applications. The hydroxides were precipitated separately or from premixed nitrate solutions in 2:1 FeOOH/Zn $(OH)_2$ ratios by addition of a stoichiometric amount of 1 N NaOH, and hydrates and residual liquid were boiled for up to 72 hrs. under reflux. An analytic method for selective solution and determination of non-reacted zinc hydroxide was developed in preliminary tests with the systems $Zn(OH)_2$ - $In(OH)_3$ and $Cu(OH)_2$ - FeOOH.

Card 1/2

L 31197-65

ACCESSION NR: AP5007619

Extraction of zinc hydroxide with a solution of 20 g NH_4Cl, 600 ml 25% NH_4OH and 400 ml water permitted the complexometric titration of zinc directly in the extract. The tests indicated that zinc ferrite is formed more rapidly in coprecipitated hydroxides, the reaction proceeding to produce more than 50 mole% $ZnFe_2O_4$ within 15-60 min. and 97 mole% $ZnFe_2O_4$ within 24-48 hrs. Orig. art. has: 4 tables and 1 figures.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR (General and Inorganic Chemistry Institute, AN UkrSSR)

SUBMITTED: 29Jul63 ENCL: 00 SUB CODE: IC,MT

NO REF SOV: 008 OTHER: 003

Card 2/2

L 55144-65 EWT(l)/EWI(m)/EWP(t)/EED-2/EWP(b) IJP(c) JD

ACCESSION NR: AP5009379 UR/0363/65/001/002/0260/0265
546.3-36

AUTHOR: Chalyy, V. P.; Lukachina, Ye. N.

TITLE: Kinetics and mechanism of ferrite formation during aging of metal hydroxide systems

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 2, 1965, 260-265

TOPIC TAGS: zinc compound, ferrite crystallization, precipitation, kinetics

ABSTRACT: The purpose of this work was to evaluate the applicability of certain kinetic equations for solid state reactions to the problem of ferrite formation in the $Zn(OH)_2$-FeOOH system, to calculate the activation energy of this process, to elucidate its mechanism and to evaluate the effects which temperature, time of aging, dispersity and phase composition of the precipitates, concentration of mother liquor and pH have on the rate of formation of zinc ferrite. Hydroxides were precipitated with NaOH from nitrate and sulfate solutions. The yield of $ZnFe_2O_4$ as a function of the temperature and aging of the $Zn(OH)_2$-FeOOH system is shown in fig.

Card 1/03

L 55144-65
ACCESSION NR: AP5009379

1 of the Enclosure. It was found that for pH ≤ 10 the rate of formation of $ZnFe_2O_4$ conforms to the empirical equation derived by Blum and Li [*J. Amer. Ceram. Soc.* 44, 611 (1961)] for the solid state reactions. The energy of activation for the formation of zinc ferrite from $Zn(OH)_2$ and FeOOH was determined from the reaction rate constant in the Arrhenius equation as a function of temperature. Numerically the energy of activation for the formation of $ZnFe_2O_4$ was found to be 15 kcal/mol during aging of zinc hydroxide and ferrice hydroxide solutions. This value is 1/6 of that for the solid state reaction involving the formation of $ZnFe_2O_4$ from ZnO and Fe_2O_3 at high temperatures. This indicates the higher reactivity of hydroxides. At pH > 10 the formation reaction of $ZnFe_2O_4$ is greatly accelerated and proceeds according to a complex mechanism because hydroxy complex ions $Zn(OH)_3^-$ and $Fe(OH)_4^-$ take part in the ferrite formation reaction. At pH ~ 14 ferrite formation is completed in one half hour. In this case separate precipitation or simultaneous precipitation of $Zn(OH)_2$ and FeOOH lose their significance, the degree of dispersity of precipitates becomes unimportant. It was found that the concentration of the mother liquor has no effect on the rate of formation of $ZnFe_2O_4$. Orig. art. has: 1 table and 4 figures.

Card 2/4

L 55144-65
ACCESSION NR: AP5009379

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk UkrSSR (Institute of General and Inorganic Chemistry, Academy of Sciences, UkrSSR)

SUBMITTED: 20Jul64 ENCL: 01 SUB CODE: IC, SS

NO REF SOV: 010 OTHER: 007

Card 3/4

CHALYY, V.P.; ZORYA, V.T.; MAKAROVA, Z.Ya.

Effect of the precipitation conditions on the water content and the apparent volume of the precipitates of metal hydroxides. Zhur. neorg. khim. 10 no.1:265-267 Ja '65. (MIRA 18:11)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

L 21655-66 EWT(m)/EWP(t) JD

ACC NR: AR6011593 SOURCE CODE: UR/0137/65/000/012/B019/B019

AUTHOR: Gavranek, B.; Gladkiy, D.; Leybenzon, S.; Onishchenko, Ye.; Shakhmeyster, B.; Chalyy, V.

ORG: none

TITLE: Automatic non-contact regulator for controlling the electric cycle of furnaces for flux remelting

SOURCE: Ref. zh. Metallurgiya, Abs. 12B131

REF SOURCE: Elektrotermiya. Nauchn.-tekhn. sb., vyp. 44, 1965, 17-19

TOPIC TAGS: automatic regulation, metal melting, metallurgic furnace, electric relay, power amplifier, electrode, electric transformer, electronic circuit

TRANSLATION: The Zaporozh'ye Affiliate of the Institute of Automation and the Dneprospetsstal' Plant have developed a non-contact regulator for controlling the electric cycle for flux remelting in consumable-electrode furnaces. The regulator maintains working current of electrode with an accuracy of 1.5% of nominal. An input signal proportional to electrode current is received by current transformer and fed to a comparison circuit where it is compared with a voltage which is proportional to the setting of the electrode working current. The difference between these voltages is fed to a semiconductor relay which operates a magnetic power amplifier. This amplifier controls the motor which moves the electrode. A

Card 1/2 UDC: 669:621.365:681.1/.2

L 21655-66

ACC NR: AR6011593

schematic diagram of the regulator is given together with an explanation of its operation. The regulator has been in continuous operation at the Dneprospetsstal' plant for a year and a half. During that time, the unit has been used in making more than 1,000 melts which have shown that the regulator is reliable in operation, simple to use, and eliminates metal rejects due to excessive deviations in electrode current during melting. V. Sidorov. [JPRS]

SUB CODE: 09, 13

Card 2/2 *AC*

CHALYY, V. S. and KOKUNIN, V. A. (Veterinary Doctors, Novovorontsov District, Kherson Oblast').

"Rumenotomy and cesarean section can be performed directly at livestock farms"

Veterinariya, vol. 39, no. 8, August 1962 pp. 50

CHALYY, Yu.S.

Device for turning rail lengths. Put' i put.khoz. 8 no.12:28-29 '64.
(MIRA 18:1)

1. Glavnyy inzh. putevoy mashinnoy stantsii No.42, stantsiya Chelyabinsk, Yuzhno-Ural'skoy dorogi.

CHALYY-PRILUTSKIY, A. N.

42357: CHALYY-PRILUTSKIY, A. N. - Nekotoryye voprosy modernizatsii frezernykh stankov dlya skorostnogo rezaniya metallov. V sb: Opyt novatorov mashinostroyeniya. Kuybyshev, 1948, s 43-50.

Experimentation of Innovations in Machine Construction

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

CHALYY-PRILUTSKIY, A.N.; BOLOTOV, B.Ye.

New method for fastening converters by means of magnets. Izm.tekh. no.2:36 Mr-Ap '58. (MIRA 11:3)
(Machine-shop practice)

SOV-115-58-4-19/45

AUTHORS: Chalyy-Prilutskiy, A.N.; Bolotov, B. Ye.

TITLE: A Device for the Dynamic Calibration of Piezo Plates (Prisposobleniye dlya dinamicheskoy graduirovki p'yezo-plastin)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 4, 35-37 (USSR)

ABSTRACT: The article deals with a device and method for determining the frequency characteristics of piezo plates used in piezo pick-ups. By plotting frequency versus voltage, the intensity of polarization in relation to the frequency of excitation of the piezo plates could be found, with amplitude constant. Two piezo plates are used, one excited at various frequencies from a sound oscillator via an amplifier and the voltage being measured from the other which also resonates. This voltage is first amplified and then passed to the voltmeter. A capacitance pick-up is used to determine the amplitude of the oscillations and also for static calibration. Here the pick-up is adjusted over a certain range by the operating screw, and the deflection

Card 1/2

A Device for the Dynamic Calibration of Piezo Plates

of the beam on a cathode oscilloscope, to which the pick-up is connected, is noted. There are 2 diagrams and 1 graph.

1. Piezoelectric transducers--Calibration

SOV/123-59-15-59554

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 96 (USSR)

AUTHOR: Chalyy-Prilutskiy, A.N.

TITLE: On the Application of Vibration Absorbers in Machine Tools

PERIODICAL: Sb. nauchn. tr. Kuybyshevsk. industr. in-ta. Mekhanika, 1958, Nr 7, pp 121 - 134

ABSTRACT: The effects of vibrations, occurring in machine tools, on the accuracy of the workpiece are stated. The stimulator of vibrations might be the electromotor, fitted in the machine tool. The effectiveness of using absorbing materials in order to reduce vibrations is investigated. Microporous rubber was tested as shock absorber. The vibrations of electromotor and plate, mounted on shock absorbers, were rated by the frequency of their own vibrations and the static setting (deformation) of the investigated shock absorber. Two kinds of absorbing equipment (packings) were tested: 1st - Putting the packings between the plate of the electromotor and its foundation; 2nd - putting the packings between the electromotor and plate, plate and foundation. The frequency of vibrations of this installation and the static setting of the shock absorbers were

Card 1/2

SOV/123-59-15-59554

On the Application of Vibration Absorbers in Machine Tools

determined by calculations and by tests. The scheme of the device for measuring the vibrations of the system is given. The theoretical formulae for the calculation of the static setting of the shock absorbers and the vibration frequency of the installation show results which correspond to the data obtained by the tests. It is stated that the vibration frequency in the second case is greatly reduced. An analysis and the criterion of expediency of using vibration absorbers is given by plotting the resonance curves and the coefficient of absorption according to the method suggested by Prof. S.P. Strelkov. 9 figures, 2 tables, 3 references.

B.I.L.

Card 2/2

S/121/61/000/004/005/008
D040/D113

AUTHORS: Chalyy-Prilutskiy, A. A., and Prilutskiy, V. A.

TITLE: A two-coordinate converter for studying the vibration of cutters

PERIODICAL: Stanki i instrument, no. 4, 1961, 26-27

TEXT: A new two-coordinate converter developed at the Kuybyshevskiy industrial'nyy institut (Kuybyshev Industrial Institute) for experimental work on the vibration of cutters directly on machine tools under both laboratory and workshop conditions, is described. It makes possible the recording of vibrations along two axes simultaneously, it is simple in design and handy, and may be installed in ordinary tool holders of any lathe-type machine tool. The converter is shown in plan view and from the rear side of the machine tool (Fig. 1 and 2, respectively). It consists of horizontal (1) and vertical (2) pickups of similar design. The converter frame (4) fixed on the cutter is connected to the pickups by leaf springs (3). The springs allow the pickups to operate independently of one another, whilst the vertical and horizontal cutter vibrations are simultaneously changing.

Card 1/3

S/121/61/000/004/005/008
D040/D113

A two-coordinate converter ...

Vibration on only one axis can be measured separately. The operational principle is as follows: the frame (4) vibrating with the cutter moves the rods (5) and (6) thus changing the gap (Δ) between the plates and consequently also the capacitances of the pickups. The varying capacitance is transformed into voltage or current, amplified in a two-channel amplifier, and recorded on a tape. Dial drums (7) are used for adjusting the gap between the plates and for static calibration of the converter. The plates are insulated from the guide bushings (8) of the drums by three bushings (9, 10 and 11). A terminal block is installed on the tool holder for connecting the converter to the amplifier, and the capacitance plates are connected to the terminal block. The design of the converter eliminates the possibility of chips falling into the pickups. The converter has been tested and proved dependable and accurate in a wide amplitude and frequency range. There are 2 figures. [Abstracter's note: Essentially complete translation].

Card 2/3

CHALYY-PRILUTSKIY, A.N.

Increasing the rigidity of internal-groove grinding machines.
Stan.i instr. 33 no.12:28-29 D '62. (MIRA 16:1)
(Grinding machines)

CHAMAGUA, Ye. I.

Cand Agr Sci - (diss) "Modern variety of grapevine of Abkhazia and means for its improvement." Odessa, 1961. 20 pp; (Ministry of Agriculture Ukrainian SSR, Odessa Agricultural Inst); 280 copies; price not given; (KL,10-61 sup, 223)

CHAMAN, V. S.

USSR/Engineering - Measuring instrument

Card 1/1 Pub. 103 - 5/29

Authors : Chaman, V. S.

Title : An electric, recording test-instrument incorporating an induction-type indicator for measuring small displacements

Periodical : Stan. i instr. 10, 14-16, Oct 1954

Abstract : A narrative report is presented concerning the use of an electric, recording test-instrument for measuring small linear displacements of machine components. A description of the above mentioned instrument is given, together with a drawing and circuit diagrams.

Institution : ...

Submitted : ...

CHAMAN, V. S.

USSR/ Miscellaneous - Industrial instruments

Card 1/1 Pub. 103 - 6/24

Authors : Chaman, V. S.

Title : New induction type profilometer for estimation of surface quality with manual drive of sensing element

Periodical : Stan. i instr. 11, 17-19, Nov 1954

Abstract : The introduction into industry of a new type of induction profilometer, with manually driven sensing element for the evaluation of surface qualities of machined objects, is announced. The technical and mechanical characteristics of this new measuring instrument are listed. Experiments with this new device showed that it is possible to measure and evaluate surface purities of machined objects of the 5-th and 12-th class of purity requirements. Drawings.

Institution : ...

Submitted : ...

CHAMAN, V. S.

USSR/ Engineering - Factory devices

Card 1/1 Pub. 103 - 12/20

Authors : Moguzov, V. I.; Khitrov, M. V.; and Chaman, V. S.

Title : Counting devices for small light-weight parts

Periodical : Stan. i instr. 26/3, page 32, Mar 1955

Abstract : Announcement is made by the Ministry of the Machine and Instrument Construction Industry of the USSR about the design of two counters (FS-K1 and FS-K2) suitable for counting of small, fragile and light-weight objects during the manufacturing processes. The first counter (FS-K1) is described as a photoelectric contactless type, the second (FS-K2) has a more complex electrical scheme but is more universal than the FS-K1. Diagrams.

Institution : .....

Submitted : .....

CHAMAN, V.S.

AID P - 4208

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 9/20

Author : Chaman, V. S.

Title : A Controlling Device in Grinding Parts with Interrupted Surfaces.

Periodical : Stan. i instr., 1, 29-30, Ja 1956

Abstract : Since the two existing electric-contact measuring devices are not quite satisfactory when applied to an interrupted surfaces, a new electronic relay for more effective contact and control of precision-type grinding of parts with interrupted surface (splined rollers, etc.) has been developed. The author describes the new device and its operation with two drawings.

Institution : None

Submitted : No date

CHAMAN, V.S.

Small-displacement induction recording instrument. Izm.tekh.no.2: 8-11 Mr-Ap '56. (Electric instruments) (MLRA 9:7)

CHAMAN, V.S.

AID P - 4784

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 11/24

Author : Chaman, V. S.

Title : The PCh-3 metal-surface measuring instrument with hand-operated (induction) tracer.

Periodical : Stan. i. instr., 3, 32-33, Mr 1956

Abstract : The author describes the mechanical characteristics and operation of the newest metal-surface measuring device developed at the Electrical-automation laboratory of the Interchangeability Bureau of the Ministry of the Machine-tool and Instrument Industry (BV MS i IP). One schematic drawing, 1 sketch, 1 photo, 1 GOST standard.

Institution : As above

Submitted : No date

CHAMAN, V.S.

Using induction recording instruments in bridges with zero balancing. Izm.tekh.no.6:34-37 N-D '56. (MLRA 10:1)
(Electric instruments)

CHAMAN, V. S. Cand Tech Sci -- (diss) "Study and Construction of an Induction [redacted] Automatic Recorder Based on a Self-Balancing Bridge." Mos, 1957. 16 pp with diagrams, 21 cm. (Min of Higher Education USSR, Mos Machine Tool and [redacted] Instrument Inst im I. V. Stalin), 100 copies (KL, 25-57, 114)

AUTHOR: Chaman, V.S.

TITLE: Single Contact Pick-up for the Dimensional Sorting of Components. (Odnokomtaktnyy Datchik Dlya Razmernoy Sortirovki Detaley). 596

PERIODICAL: "Stanki i Instrument" (Machine Tools and Cutting Tools, No.3, 1957, pp.27-29. (U.S.S.R.).

ABSTRACT: The roller diameter is measured by the number of ampere-turns of a small electro-magnet which attracts the spring loaded back-stop contact of the gauge required to make contact with the measuring feeler. A spring leaf mounted and a corrugated membrane mounted back-stop contact are illustrated and discussed. The number of ampere-turns can be varied either by a variable resistance in the coil circuit or by tapping the coil. The second method has been found more practical in an automatic sorting installation whenever the switching system is situated near the measuring element, since the number of leads required in this form of switching is two plus the number of taps of the electro-magnet coil. The complete device consists of a voltage-stabilised rectifier, a measuring element with its control tubes, an automatic relay chain and an indicating lamp panel. In the automatic relay circuit, each relay is operated by the output of the main control tube but is maintained by a holding contact which by-passes the tube. Each relay responds after the operation of the preceding relay until the measuring device makes contact at the particular coil tapping which corresponds to the diameter of the roller. At this point the appropriate signal

Card 1/2

lamp lights up, signalling the dimensional step of the roller. The same signal can also be used for releasing the roller from its measuring position and guiding it into the appropriate compartment of the sorting installation. After release of the roller, all the relays are re-set for the next measuring cycle. The details of the circuit are so designed that the measuring element can operate with only a few volts, a feature which contributes to the accuracy and stability of the sorting process. An accuracy of sorting into groups separated by 2 micron steps has been regularly attained and a reduction of the separation to 1 micron is claimed to be possible. The relay system has been found to be the most reliable and cheapest form of automatic switching, but a relay response below 50 milli-seconds is not considered practical and the time interval for sorting into 10 groups, therefore, becomes 0.5 sec. For faster switching, a separately driven commutator has been used. Standard units of this type with arbitrarily pre-set dimensional steps up to 15 in number is under development by the Office of Inter-changeability

There are 4 illustrations, including 1 photograph.

AUTHOR: Chaman, V.S.

SOV-115-58-4-28/45

TITLE: An LF Broad-band RC Filter (Nizkochastotnyy shirokodiapazonnyy RC fil'tr)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 4, pp 68-70 (USSR)

ABSTRACT: The Electro-Automation Laboratory of the Byuro vzaimozamenyaemosti Komiteta standartov, mer i izmeritel'nykh priborov (Board of Interreplaceability, Committee for Standards, Measures and Measuring Instruments) has designed a new type of RC bridge filter which makes possible the stepless tuning of the quasi-resonance frequency throughout a broad waveband. The operation, tuning and selection of component values for the filter are discussed and some experimental resonance curves, derived from these filters, are given. There are 2 graphs, 2 circuit diagrams and 1 table.

1. Radio frequency filters--Design

Card 1/1

CHAMAN, V.S.

CHAMAN, V.S.

New design of transmitters for PCh-3 profilometers used in machine shops. Stan.i instr. 29 no.1:16-17 Ja '58. (MIRA 11:1)
(Measuring instruments)

VYSOTSKIY, A.V.; CHAMAN, V.S.

Instruments for operational control of cylindrical grinding machines. Stan. i instr. 29 no.3:28-29 Mr '58. (MIRA 12:1)
(Grinding machines--Numerical control)

CHAMAN, V.S.

Circuit of an electronic relay for electric contact instruments used for operating control during grinding. Stan. i instr. 30 no.2: 24-26 F '59. (MIRA 12:3)
(Electronic instruments)

CHAMAN, V.S.

"Fundamentals of the feeler method for determining the roughness of surfaces" by B.S.Davydov. Reviewed by V.S. Chaman. Izm.tekh. no.7:61-62 Jl '60. (MIRA 13:7)
(Surfaces (Technology)--Testing)
(Davydov, B.S.)

Chaman, V.S.

CHAMAN, V.S.

Transducer for noncontact measurements of minor displacements. Priborostroenie no. 2:17-19 F '61. (MIRA 14:2)
(Transducers)

GOLOUL'NIKOV, Ye.M.; KOCHENOV, M.I.; PELIKS, A. Ya.; CHAMAN, V.S.

New goniometric table with an induction transmitter. Izm.tekh. no.4:9-13 Ap '61. (MIRA 14:3)
(Goniometers)

KOCHENOV, M.I.; CHAMAN, V.S.

Inductive meter equipped with a computer. Izm.tekh. no.11:12-17 N '61. (MIRA 14:11)

(Electronic instruments)